

Big Data Analytics in Healthcare



Application Of Big Data Analytics In Health Care

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Application Of Big Data Analytics In Health Care:

Big Data Analytics for Smart Healthcare applications Celestine Iwendi, Thippa Reddy Gadekallu, Ali Kashif Bashir, 2025-12-10 Due to the rapid increase of digitalization numerous technologies like the Internet of Medical Things IoMT Wearable devices a huge amount of healthcare data is being generated in multiple formats than ever before Big data analytics ascertain the proof that has a huge mandate for knowledge discovery solving problems computing efficiency It mainly emphasizes the peculiar tests regarding the information data processing analytical modeling and managing the officialdoms to turn big data into big insight The main theme of this special issue is to gather the contemporary exploration of the cutting edge developments issues and challenges in big data analytics for smart healthcare systems Proposed submissions should be original unpublished and novel in depth research that makes significant methodological or application contributions Review papers case studies and theoretical works are also accepted Machine learning with big data for smart health care Soft computing techniques with Big Data for healthcare applications Big data for Internet of Medical Things IoMT Security and privacy issues in IoMT enabled systems Blockchain with Big data for IoMT Blockchain with Edge computing for healthcare applications Interoperability Development Testing of IoMT Industrial Internet of Things IIoT based big data for smart healthcare Big data and Cobots for Healthcare applications Future challenges and applications of Big data in Smart Healthcare systems

Research Anthology on Big Data Analytics, Architectures, and Applications

Management Association, Information Resources, 2021-09-24 Society is now completely driven by data with many industries relying on data to conduct business or basic functions within the organization With the efficiencies that big data bring to all institutions data is continuously being collected and analyzed However data sets may be too complex for traditional data processing and therefore different strategies must evolve to solve the issue The field of big data works as a valuable tool for many different industries The Research Anthology on Big Data Analytics Architectures and Applications is a complete reference source on big data analytics that offers the latest innovative architectures and frameworks and explores a variety of applications within various industries Offering an international perspective the applications discussed within this anthology feature global representation Covering topics such as advertising curricula driven supply chain and smart cities this research anthology is ideal for data scientists data analysts computer engineers software engineers technologists government officials managers CEOs professors graduate students researchers and academicians

Big Data Analytics for Healthcare Pantea Keikhosrokiani, 2022-05-19 Big Data Analytics and Medical Information Systems presents the valuable use of artificial intelligence and big data analytics in healthcare and medical sciences It focuses on theories methods and approaches in which data analytic techniques can be used to examine medical data to provide a meaningful pattern for classification diagnosis treatment and prediction of diseases The book discusses topics such as theories and concepts of the field and how big medical data mining techniques and applications can be applied to classification diagnosis treatment and

prediction of diseases In addition it covers social behavioral and medical fake news analytics to prevent medical misinformation and myths It is a valuable resource for graduate students researchers and members of biomedical field who are interested in learning more about analytic tools to support their work Presents theories methods and approaches in which data analytic techniques are used for medical data Brings practical information on how to use big data for classification diagnosis treatment and prediction of diseases Discusses social behavioral and medical fake news analytics for medical information systems

Big Data Analytics in Healthcare to Assist Medical Diagnosis Christian Marheine,2018-07-24 Academic Paper from the year 2018 in the subject Computer Sciences Industry 4 0 grade A 90 100 ODER 1 0 Lund University Informatik course Business Intelligence language English abstract This seminar paper discusses how big data analytics might support healthcare organizations e g hospitals in medical diagnosis The paper proceeds as follows First an overview of big data analytics in healthcare is provided with a focus on medical image analytics Second two large scale image analysis cases are presented to materialize the theory upon which an integrated framework is proposed that illustrates how big data analytics might assist medical diagnosis Third the contemporary challenges of IT adoption in healthcare are discussed and lastly a brief conclusion is drawn *Machine Learning and Analytics in Healthcare Systems* Himani Bansal,Balamurugan Balusamy,T. Poongodi,Firoz Khan KP,2021-06-30 This book provides applications of machine learning in healthcare systems and seeks to close the gap between engineering and medicine It will combine the design and problem solving skills of engineering with health sciences in order to advance healthcare treatment The book will include areas such as diagnosis monitoring and therapy The book will provide real world case studies gives a detailed exploration of applications in healthcare systems offers multiple perspectives on a variety of disciplines while also letting the reader know how to avoid some of the consequences of old methods with data sharing The book can be used as a reference for practitioners researchers and for students at basic and intermediary levels in Computer Science Electronics and Communications *Big Data Analytics in Healthcare* Anand J. Kulkarni,Patrick Siarry,Pramod Kumar Singh,Ajith Abraham,Mengjie Zhang,Albert Zomaya,Fazle Baki,2019-10-01 This book includes state of the art discussions on various issues and aspects of the implementation testing validation and application of big data in the context of healthcare The concept of big data is revolutionary both from a technological and societal well being standpoint This book provides a comprehensive reference guide for engineers scientists and students studying involved in the development of big data tools in the areas of healthcare and medicine It also features a multifaceted and state of the art literature review on healthcare data its modalities complexities and methodologies along with mathematical formulations The book is divided into two main sections the first of which discusses the challenges and opportunities associated with the implementation of big data in the healthcare sector In turn the second addresses the mathematical modeling of healthcare problems as well as current and potential future big data applications and platforms *Applying Big Data Analytics in Bioinformatics and Medicine* Lytras,

Miltiadis D., Papadopoulou, Paraskevi, 2017-06-16 Many aspects of modern life have become personalized yet healthcare practices have been lagging behind in this trend It is now becoming more common to use big data analysis to improve current healthcare and medicinal systems and offer better health services to all citizens Applying Big Data Analytics in Bioinformatics and Medicine is a comprehensive reference source that overviews the current state of medical treatments and systems and offers emerging solutions for a more personalized approach to the healthcare field Featuring coverage on relevant topics that include smart data proteomics medical data storage and drug design this publication is an ideal resource for medical professionals healthcare practitioners academicians and researchers interested in the latest trends and techniques in personalized medicine

Handbook on Intelligent Healthcare Analytics A. Jaya, K. Kalaiselvi, Dinesh Goyal, Dhiya Al-Jumeily, 2022-06-01 HANDBOOK OF INTELLIGENT HEALTHCARE ANALYTICS The book explores the various recent tools and techniques used for deriving knowledge from healthcare data analytics for researchers and practitioners The power of healthcare data analytics is being increasingly used in the industry Advanced analytics techniques are used against large data sets to uncover hidden patterns unknown correlations market trends customer preferences and other useful information A Handbook on Intelligent Healthcare Analytics covers both the theory and application of the tools techniques and algorithms for use in big data in healthcare and clinical research It provides the most recent research findings to derive knowledge using big data analytics which helps to analyze huge amounts of real time healthcare data the analysis of which can provide further insights in terms of procedural technical medical and other types of improvements in healthcare In addition the reader will find in this Handbook Innovative hybrid machine learning and deep learning techniques applied in various healthcare data sets as well as various kinds of machine learning algorithms existing such as supervised unsupervised semi supervised reinforcement learning and guides how readers can implement the Python environment for machine learning An exploration of predictive analytics in healthcare The various challenges for smart healthcare including privacy confidentiality authenticity loss of information attacks etc that create a new burden for providers to maintain compliance with healthcare data security In addition this book also explores various sources of personalized healthcare data and the commercial platforms for healthcare data analytics Audience Healthcare professionals researchers and practitioners who wish to figure out the core concepts of smart healthcare applications and the innovative methods and technologies used in healthcare will all benefit from this book

Intelligent Systems for Healthcare Management and Delivery Bouchemal, Nardjes, 2018-12-07 With the growing use of new technologies and artificial intelligence AI applications intelligent systems can be used to manage large amounts of existing data in healthcare domains Having more intelligent methods for accessing data allows medical professionals to more efficiently identify the best medical practices and more concrete solutions for diagnosing and treating a multitude of rare diseases Intelligent Systems for Healthcare Management and Delivery provides relevant and advanced methodological technological and scientific approaches related to the

application of sophisticated exploitation of AI as well as providing insight into the technologies and intelligent applications that have received growing attention in recent years such as medical imaging EMR systems and drug development assistance This publication fosters a scientific debate for new healthcare intelligent systems and sophisticated approaches for enhanced healthcare services and is ideally designed for medical professionals hospital staff rehabilitation specialists medical educators and researchers

Emerging Technologies in Healthcare Matthew N. O. Sadiku, Rotimi A. K. Jaiyesimi, Joyce B. Idehen, Sarhan M. Musa, 2021-10-05 Health is regarded as one of the global challenges for mankind Healthcare is a complex system that covers processes of diagnosis treatment and prevention of diseases It constitutes a fundamental pillar of the modern society Modern healthcare is technological healthcare Technology is everywhere This book focuses on twenty one emerging technologies in the healthcare industry An emerging technology is one that holds the promise of creating a new economic engine and is trans industrial Emerging technological trends are rapidly transforming businesses in general and healthcare in particular in ways that we find hard to imagine Artificial intelligence AI machine learning robots blockchain cloud computing Internet of things IoT and augmented virtual reality are some of the technologies at the heart of this revolution and are covered in this book The convergence of these technologies is upon us and will have a huge impact on the patient experience

IoT and ICT for Healthcare Applications Nishu Gupta, Sara Paiva, 2020-08-12 This book provides an insight on the importance that Internet of Things IoT and Information and Communication Technology ICT solutions can have in taking care of people s health Key features of this book present the recent and emerging developments in various specializations in curing health problems and finding their solutions by incorporating IoT and ICT This book presents useful IoT and ICT applications and architectures that cater to their improved healthcare requirements Topics include in home healthcare services based on the Internet of Things RFID technology for IoT based personal healthcare Real time reporting and monitoring Interfacing devices to IoT Smart medical services Embedded gateway configuration EGC Health monitoring infrastructure and more Features a number of practical solutions and applications of IoT and ICT on healthcare Includes application domains such as communication technology and electronic materials and devices Applies to researchers academics students and practitioners around the world

Edge AI for Industry 5.0 and Healthcare 5.0 Applications Pethuru Raj, B. Sundaravadivazhagan, A. Saleem Raja, Mohammed M. Alani, 2025-04-04 Edge AI is the seamless and spontaneous combination of Edge or Fog computing and AI It enables acquiring real time insights which in turn leads to the realization of real time people centric event driven business critical process aware and knowledge filled software services and applications Edge AI for Industry 5.0 and Healthcare 5.0 Applications looks at the unique contributions of Edge AI for developing solutions for Industry 5.0 and Healthcare 5.0 It explains how Industry 5.0 fine tunes the human machine connection and leverages tiny high performance AI centric processors in IoT edge devices for real time decision making and application processing Focusing on Explainable AI XAI the book discusses The role of XAI in Healthcare 5.0 Best practices

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Analytics in Healthcare Christo El Morr,Hossam Ali-Hassan,2019-01-21 This book offers a practical introduction to healthcare analytics that does not require a background in data science or statistics It presents the basics of data analytics and tools and includes multiple examples of their applications in the field The book also identifies practical challenges that fuel the need for analytics in healthcare as well as the solutions to address these problems In the healthcare field professionals have access to vast amount of data in the form of staff records electronic patient record clinical findings diagnosis prescription drug medical imaging procedure mobile health resources available etc Managing the data and analyzing it to properly understand it and use it to make well informed decisions can be a challenge for managers and health care professionals A new generation of applications sometimes referred to as end user analytics or self serve analytics are specifically designed for non technical users such as managers and business professionals The ability to use these increasingly accessible tools with the abundant data requires a basic understanding of the core concepts of data analytics and interpretation of outcomes This book is a resource for such individuals to demystify and learn the basics of data management and analytics for healthcare while also looking towards future directions in the field

"Healthcare Start-ups: Revolutionizing the Healthcare Industry" Shameem Anas,2023-09-10 Are you tired of the healthcare industry s endless struggles the constant pain it inflicts on both patients and professionals and the pervasive agitation it creates If you re seeking a groundbreaking solution to revolutionize healthcare look no further Our ebook Healthcare Start ups Revolutionizing the Healthcare Industry is your ultimate guide to transforming this sector for the better Benefits of Reading Our Ebook Pain Relief Discover innovative strategies to alleviate the pain points plaguing the healthcare industry We delve deep into the challenges that healthcare startups face and provide actionable solutions to overcome them Agitation Elimination Say goodbye to the frustration and agitation that often accompany healthcare endeavors Our ebook equips you with the knowledge and insights to navigate the complexities of the healthcare landscape with ease Solutions Galore We don t just highlight the problems we offer concrete solutions Learn how to develop and implement groundbreaking healthcare startups that will shape the future of the industry Expert Guidance Benefit from the wisdom of industry experts who have successfully revolutionized healthcare Our ebook is a compilation of their invaluable insights ensuring you re armed with the best strategies Profitable Ventures Healthcare startups can be lucrative and our ebook shows you how to build a sustainable profitable business that not only benefits you but also contributes positively to

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Modelling and Big Data Analytics in Healthcare Mayuri Mehta,Kalpdrum Passi,Indranath Chatterjee,Rajan Patel,2021-12-08 Knowledge Modelling and Big Data Analytics in Healthcare Advances and Applications focuses on automated analytical techniques for healthcare applications used to extract knowledge from a vast amount of data It brings together a variety of different aspects of the healthcare system and aids in the decision making processes for healthcare professionals The editors connect four contemporary areas of research rarely brought together in one book artificial intelligence big data analytics knowledge modelling and healthcare They present state of the art research from the healthcare sector including research on medical imaging healthcare analysis and the applications of artificial intelligence in drug discovery This book is intended for data scientists academicians and industry professionals in the healthcare sector

Big Data and Health Analytics Katherine Marconi,Harold Lehmann,2014-12-20 This book provides frameworks use cases and examples that illustrate the role of big data and analytics in modern health care including how public health information can inform health delivery Written for health care professionals and executives this book presents the current thinking of academic and industry researchers and leaders from around the world Using non technical language it includes case studies that illustrate the business processes that underlie the use of big data and health analytics to improve health care delivery

Big Barriers to Big Data Analytics in Medicare Eugene Roberts,2017-03-15 Essay from the year 2017 in the subject Sociology Medicine and Health language English abstract The Center for Medicare and Medicaid Services CMS manages health care for over one hundred million patients A large majority of these are Medicare members for which the CMS is responsible for administering health care benefits through medical claims data For this population comfortability with their health care physician quality of life cost and longevity are all of concern Indeed Medicare members financial and health concerns burden not only the members themselves but families and taxpayers as well The recent emergence of big data analytics BDA has provided solutions to issues like these in many other patient populations The CMS has recently conducted some internal BDA and has shown efficacy in fighting fraud and lowering hospital readmissions However the agency cannot possibly conduct research to addresses all Medicare members needs in such an encapsulated manner Other government

agencies that house similar data provide easy access and even some analytical discovery tools to outside researchers in varying settings The CMS has partners to help manage data and its availability to researchers however large barriers to BDA in Medicare still exist In addition to conventional challenges with big data characteristics the CMS faces regulatory and legal hurdles in health care policy and data privacy Additionally extremely rigorous application processes and prohibitively high costs limit researchers access to Medicare data for discovery and early stage research purposes These barriers need to be overcome to expand the CMS s success in other areas to addressing all the health needs of Medicare members

Big Data Analytics and Intelligent Applications for Smart and Secure Healthcare Services Kamal Upreti,Nishant Kumar,Mohammad Shabbir Alam,Mohammad Shahnawaz Nasir,Debabrata Samanta,2025-02-26 The book provides a comprehensive discussion for utilizing computational models such as artificial neural networks agent based models and decision field theory for reliability engineering It further presents optimization solutions for smart and secure healthcare services The text showcases how to predict the failure and repair rates of healthcare subsystems using computational intelligence This book Explores how data driven methodologies and advanced computational intelligence are revolutionizing the healthcare industry promoting efficiency accessibility and sustainability Highlights the pivotal role that big data analytics plays in harnessing vast amounts of patient records clinical information and real time medical data to provide timely insights for healthcare professionals and policymakers Discusses the integration of artificial intelligence and machine learning techniques in healthcare with a focus on revolutionizing disease detection treatment planning and resource allocation Lays the foundation for developing sustainable healthcare systems that are adaptable to long term challenges such as population growth emerging diseases and resource constraints Covers computational intelligence techniques like fuzzy logic neural networks and evolutionary computations emphasizing their role in solving complex data driven healthcare problems Includes topics like data management visualization protection and complex adaptive systems as well as hybrid computational intelligence techniques for synergistic problem solving strategies This volume will serve as an ideal text for senior undergraduates graduate students and academic researchers in fields including electrical engineering electronics and communications engineering computer engineering and mathematics

Data Science and Big Data Analytics EMC Education Services,2015-01-27 Data Science and Big Data Analytics is about harnessing the power of data for new insights The book covers the breadth of activities and methods and tools that Data Scientists use The content focuses on concepts principles and practical applications that are applicable to any industry and technology environment and the learning is supported and explained with examples that you can replicate using open source software This book will help you Become a contributor on a data science team Deploy a structured lifecycle approach to data analytics problems Apply appropriate analytic techniques and tools to analyzing big data Learn how to tell a compelling story with data to drive business action Prepare for EMC Proven Professional Data Science Certification Get started discovering analyzing visualizing and presenting data in a meaningful way today

Applications of Big Data in Healthcare Ashish Khanna,Deepak Gupta,Nilanjan Dey,2021-03-10 Applications of Big Data in Healthcare Theory and Practice begins with the basics of Big Data analysis and introduces the tools processes and procedures associated with Big Data analytics The book unites healthcare with Big Data analysis and uses the advantages of the latter to solve the problems faced by the former The authors present the challenges faced by the healthcare industry including capturing storing searching sharing and analyzing data This book illustrates the challenges in the applications of Big Data and suggests ways to overcome them with a primary emphasis on data repositories challenges and concepts for data scientists engineers and clinicians The applications of Big Data have grown tremendously within the past few years and its growth can not only be attributed to its competence to handle large data streams but also to its abilities to find insights from complex noisy heterogeneous longitudinal and voluminous data The main objectives of Big Data in the healthcare sector is to come up with ways to provide personalized healthcare to patients by taking into account the enormous amounts of already existing data Provides case studies that illustrate the business processes underlying the use of big data and deep learning health analytics to improve health care delivery Supplies readers with a foundation for further specialized study in clinical analysis and data management Includes links to websites videos articles and other online content to expand and support the primary learning objectives for each major section of the book

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